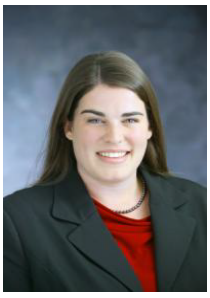
SHORT COURSE T6
SURGE and SURGE CONTROL SYSTEMS

Robert C. White is a Principal Engineer for Solar Turbines, Inc. in San Diego, California. He is responsible for compressor and gas turbine performance predictions and application studies. In his former position he led the development of advanced surge avoidance and compressor controls at Solar Turbines. Mr. White holds 12 U.S. patents for turbomachinery related developments. He has contributed to several papers, tutorials, and publications in the field of turbomachinery.

Kenneth DeVito is a senior engineer at Dresser-Rand Company. He joined Dresser-Rand in 1979, and since 1987 has been responsible for application and design engineering of auxiliary and process systems for turbocompressor based projects. For the past 10 years, Ken has also acted as field project manager for several extended scope construction and installation projects, and for programs in the R&D portfolio. He is currently working out of Dresser-Rand's commercial headquarters and regional office in Houston Texas.

Dr. Ken Junk is a Senior Principal Engineer in the Advanced Technology group at the Emerson Innovation Center, located in Marshalltown, Iowa. Dr. Junk has been involved with the development of smart positioner technology, including DVC2000, DVC5000, DVC6000, DVC6000f, and DVC6200 positioner platforms. Much of his work has centered around servo control. Recent areas of focus include hardware and algorithm development fir high performance control of large compressor antisurge valves and turbine bypass valves.

Dr. Jeffrey Moore is the manager of the Rotating Machinery Dynamics Section at Southwest Research Institute in San Antonio, TX. He holds a B.S., M.S., and Ph.D. in Mechanical Engineering from Texas A&M University. His professional experience over the last 20 years includes engineering and management responsibilities related to centrifugal compressors and gas turbines at Solar Turbines Inc. in San Diego, CA, Dresser-Rand in Olean, NY, and Southwest Research Institute in San Antonio, TX. He has authored over 30 technical papers related to turbomachinery and has three patents pendingHe is also a member of the Turbomachinery Symposium Advisory Committee, the IFToMM International Rotordynamics Conference Committee, and the API 616 and 684 Task Forces.



Melissa Wilcox is a Research Engineer in the Machinery Structural Dynamics Group at Southwest Research Institute. Her background includes work related to analysis and testing of gas turbines, compressors, and pipeline systems. Ms. Wilcox's work experience is supported by a Bachelors of Science in Mechanical Engineering from Texas A&M University and graduate work at Georgia Institute of Technology.